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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,627	15,627 12/17/2001		Sadayoshi Kanemaru	217494US8 7547	
22850	7590	10/01/2004		EXAM	MINER
,	•	MCCLELLAND, N	NGUYEN, TUAN N		
	1940 DUKE STREET ALEXANDRIA, VA 22314				PAPER NUMBER
	,			2828	

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/015,627	KANEMARU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Tuan N Nguyen	2828					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM							
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period version of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 17 De	ecember 2001.						
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3) Since this application is in condition for allowar	<u> </u>						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-25 is/are pending in the application.	☑ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3 and 5-25</u> is/are rejected.	Claim(s) <u>1-3 and 5-25</u> is/are rejected.						
7)⊠ Claim(s) <u>4</u> is/are objected to.	Claim(s) 4 is/are objected to.						
8) Claim(s) are subject to restriction and/o	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/3/02; 8/19/02.		atent Application (PTO-152)					

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DETAILED ACTION

Double Patenting

1. Claims 1-25 are provisionally rejected under the judicially created doctrine of double patenting over claims 1-67 of patent US 6765935, and claims 1-35 of patent US 6782028. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefore ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of 35 U.S.C. 102(6) which forms the basis for all obviousness rejections set forth in this Office action:
 - (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claims 1-3, 6-8, 14-15, 17, 20, 25 are rejected under 35 U.S.C. 102(E) as being unpatentable over Ziari et al. (US 6404542).

With respect to claims 1, 2, 3, 6, 20, 25 Ziari et al. '542 shows in (figures 1, 5) and discloses a semiconductor laser having a parallel first and second strip emits first and second laser beams where they separate between 10-100um, or 5um or more (Col 3: 10-20); a laser module with the dual laser, a first lens, a polarization unit, a polarization combining unit comprising first/second/and third port output of the multiplexed beam, and an optical fiber with

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grating receiving laser beam ad sends the beams to the outside. Since claim 20 recites the same or identical elements/limitations it is inherent to use patents ('542) to recite the fabrication method of the semiconductor laser module, product by process.

With respect to claims 7, 8 14, 15, 17 Ziari '542 shows the first lens and birefringent element where beams are propagate as ordinary and extraordinary ray (Fig 5: 506, 508) (Col 3: 45-67; Col 5: 45-67); and the second lens disposed between polarization unit and optical fiber grating such that the beams focus on focal points of the lens (Fig 5: 506, 518)(Fig 1: 224).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or non-obviousness.
- 5. Claims 5, 9-13, 16, 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ziari et al. (US 6404542).

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With respect to claim 5, the claim further require the wavelength of the lasers are approximately 1200~1600nm. Ziari '542 did not discretely disclose about the wavelength of the laser module. However, it has been held where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art, in this case the structure of the semiconductor and its module. In re Aller, 105 USPQ 233.

With respect to claims 8, 9, 10 Ziari '542 shows in the (figure 5: 508) the polarization combining unit are formed so that the rays are mixed and propagate to the optical fiber, and the birefrin.

With respect to claims 11-13, 16, 21-24 (Col 3: 45-67) discloses the prism and elements mount on holder. It has been held that omission of an element and its function in a combination where the remaining elements perform the same function as before involves only routine skill in the art, in this case the optical elements mount on the same holder so that the lasers can accurately control. *In re Karlson, 136 USPQ 184*.

8. Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ziari et al. (US 6404542) in view of Ohshima et al. (US 5068865).

Ziari '542 discloses the above, the claims further require that the semiconductor mont on cooling device and fixing to bases. Ohshima et al. '865 discloses the use of cooling mounted platform to control the temperature of laser device coupling to the output fiber. It is within one skill in the art to provide Ziari '542 the peltier or cooling platform as suggested by Ohshima '865 to control the heat radiate from the semiconductor element.

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Allowable Subject Matter

Claim 4 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims, since the prior art of record and considered pertinent to the applicant's

disclosure does not teach or suggest the claimed a heat sink formed with diamond, where the

first or second electrode in bonded to the diamond of the heat sink.

Communication Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tuan N Nguyen whose telephone number is (571) 272-1948. The

examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Harvey Minsun can be reached on (703) 308-16741. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9306 for regular

communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 306-3329.

Tuan N. Nguyen

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1143Y EXAMINER

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